

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S85	2	("6395053").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/10/24 17:42
S86	173801	(metal\$3organ\$2 or organometal\$3 or (metal near complex))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 17:52
S87	2077	((nano or fine or (ultra near fin)) adj (particle or powder)) same (crystal or crystalline) with oxide	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 17:54
S88	335	S86 S87	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 17:54
S89	114	S88 and ligand	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 17:55
S90	114	S89 and (heat\$3 or bak\$3 or thermal or fir\$3 or cur \$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 17:56
S91	113	S89 and (heat\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 17:57
S92	1	S90 not S91	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 17:57
S93	13169	((method or prepar\$3 or produc\$3 or synthesi\$4 or mak\$3 or form\$3) with (crystal or crystalline) with oxide with meta\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 17:59
S94	1723	S93 S86	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 17:59
S95	85	S94 ((nano or fine or (ultra near fin) or submicron) adj (particle or powder)) with (crystal or crystalline) with oxide	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 17:59
S96	50	S95 @ad <= "20030407"	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 18:00
S97	25	S96 and ((no or without or non) with (heat\$3 or thermal))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 18:00

S98	8	S96 and ((no or without or non) near3 (heat\$3 or thermal))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 18:00
S99	2122	((method or prepar\$3 or produc\$3 or synthesi\$4 or mak\$3 or form\$3) with (crystal or crystalline) with oxide with meta\$3 with (\$4particle or \$4powder or granular or grain))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 18:04
S100	359	S86 S99	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 18:05
S101	27	S100 ((nano or fine or (ultra near fin) or submicron) adj (particle or powder)) near3 (crystal or crystalline) near3 oxide	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 18:05
S102	2	S101 and ((no or without or non) near3 (heat\$3 or thermal))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 18:05
S103	16	S101 @ad <= "20030407"	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 18:07
S104	12875	((method or prepar\$3 or produc\$3 or synthesi\$4 or mak\$3 or form\$3) with (oxide near2 (meta\$3 or zinc or tin) or ZnO or "SnO. sub.2") near2 (\$4particle or \$4powder or granular or grain))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 18:09
S105	175	((method or prepar\$3 or produc\$3 or synthesi\$4 or mak\$3 or form\$3) with (oxide near2 (meta\$3 or zinc or tin) or ZnO or "SnO. sub.2") near2 (\$4particle or \$4powder or granular or grain)) same3 ((no or without or non) near3 (heat \$3 or thermal))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 18:09
S106	18	S105 (metal\$3organ\$2 or organometal\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 18:10
S107	12	S106 and (oxidiz\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 18:18
S108	0	S105 (metal\$3organ\$2 or organometal\$3) with oxidiz \$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 18:20

S109	0	S105 (metal\$3organ\$2 or organometal\$3 or alk?oxide or (alkylene adj oxide)) with oxidiz\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 18:20
S110	0	S105 (metal\$3organ\$2 or organometal\$3 or alk?oxide or (alkylene adj oxide)) with (oxidiz\$5 or ((react \$3or contact\$3 or expos\$3) near3 (air or oxygen or water or "h.sub.2o")))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 18:21
S111	1670	(metal\$3organ\$2 or organometal\$3 or alk?oxide or (alkylene adj oxide)) with (oxidiz\$5 or ((react \$3or contact\$3 or expos\$3) near3 (air or oxygen or water or "h.sub.2o")) same (oxide near2 (meta\$3 or zinc or tin) or ZnO or "SnO.sub.2") near2 (\$4particle or \$4powder or granular or grain))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 18:23
S112	1670	(metal\$3organ\$2 or organometal\$3 or alk?oxide or (alkylene adj oxide)) with (oxidiz\$5 or ((react \$3or contact\$3 or expos\$3) near3 (air or oxygen or water or "h.sub.2o")) with (oxide near2 (meta\$3 or zinc or tin) or ZnO or "SnO.sub.2") near2 (\$4particle or \$4powder or granular or grain))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 18:23
S113	6	S112 ((method or prepar\$3 or produc\$3 or synthesi\$4 or mak\$3 or form\$3) with (oxide near2 (meta\$3 or zinc or tin) or ZnO or "SnO.sub.2") near2 (\$4particle or \$4powder or granular or grain)) and ((no or without or non) near3 (heat\$3 or thermal))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 18:27
S114	4	S112 ((method or prepar\$3 or produc\$3 or synthesi\$4 or mak\$3 or form\$3) with (\$4particle or \$4powder or granular or grain)) with ((no or without or non) near3 (heat\$3 or thermal))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/24 18:29

S115	14933	(organ\$2metal\$3 or metal \$3organ\$2 or (zinc near dicyclohexyl) or "Zn(C.sub.6H.sub.11).sub.2" or (tin near dicyclopentadienyl) or "Sn (C.sub.5H.sub.5).sub.2") with (solution or medium or aqueous or liquid)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/29 19:23
S116	111	(organ\$2metal\$3 or metal \$3organ\$2 or (zinc near dicyclohexyl) or "Zn(C.sub.6H.sub.11).sub.2" or (tin near dicyclopentadienyl) or "Sn (C.sub.5H.sub.5).sub.2") with (solution or medium or aqueous or liquid) same ((oxidiz\$3 near agent) or HDA or DDA)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/29 19:24
S117	105	S116 and (water or "h.sub.2o" or air or oxygen or dioxygen)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/29 19:26
S118	63	S117 and ((ambient or room) near2 (temp or temperature))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/29 19:26
S119	63	S117 and ((ambient or room) near (temp or temperature))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/29 19:27
S120	7	S119 and (air or oxygen or dioxygen) with atmosphere	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/29 19:27
S121	0	((zinc near dicyclohexyl) or "Zn(C.sub.6H.sub.11).sub.2" or (tin near dicyclopentadienyl) or "Sn (C.sub.5H.sub.5).sub.2") with (solution or medium or aqueous or liquid) same ((oxidiz\$3 near agent) or HDA or DDA or oxidant)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/29 19:29
S122	3	((zinc near dicyclohexyl) or "Zn(C.sub.6H.sub.11).sub.2" or (tin near dicyclopentadienyl) or "Sn (C.sub.5H.sub.5).sub.2") with (solution or medium or aqueous or liquid)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/29 19:29

S123	2	((zinc near dicyclohexyl) or "Zn(C.sub.6H.sub.11).sub.2" or (tin near dicyclopentadienyl) or "Sn(C.sub.5H.sub.5).sub.2") same (hexadecylamine or (oxidiz\$3 near agent) or HDA or DDA) same (air or oxygen)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/29 19:33
S124	158	(organ\$2metal\$3 or metal \$3organ\$2 or (zinc near dicyclohexyl) or "Zn(C.sub.6H.sub.11).sub.2" or (tin near dicyclopentadienyl) or "Sn(C.sub.5H.sub.5).sub.2") same (hexadecylamine or (oxidiz\$3 near agent) or HDA or DDA) same (air or oxygen)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/29 19:34
S125	83	S124 and ((ambient or room) near (temp or temperature))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/29 19:35
S126	18	S125 and ((no or without or non?) near4 (heat\$3 or thermal or dr\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/10/29 19:38
S127	96	zinc adj dicyclohexyl or "Zn(C.sub.6H.sub.11).sub.2" or "bis(bis (dimethylamide))" or tin adj dicyclopentadienyl or "Sn(C.sub.5H.sub.5).sub.2"	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/06 15:02
S128	0	(zinc adj dicyclohexyl or "Zn(C.sub.6H.sub.11).sub.2" or "bis(bis (dimethylamide))" or tin adj dicyclopentadienyl or "Sn(C.sub.5H.sub.5).sub.2" or indium adj cyclopentadienyl or "In(C.sub.5H.sub.5).sub.2") same (solution or medium or carrier) same (mix\$3 or stirr\$3) same (oxidiz\$5 or air or water)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/06 15:05
S129	1	(zinc adj dicyclohexyl or "Zn(C.sub.6H.sub.11).sub.2" or "bis(bis (dimethylamide))" or tin adj dicyclopentadienyl or "Sn(C.sub.5H.sub.5).sub.2" or indium adj cyclopentadienyl or "In(C.sub.5H.sub.5).sub.2") same (solution or medium or carrier) same (oxidiz\$5 or air or water)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/06 15:05

S130	1	(zinc adj dicyclohexyl or "ZnOy.sub.2" or "Zn(C.sub.6H.sub.11).sub.2" or "bis(bis(dimethylamide))" or tin adj dicyclopentadienyl or "Sn(C.sub.5H.sub.5).sub.2" or indium adj cyclopentadienyl or "In(C.sub.5H.sub.5).sub.2") with (solution or medium or carrier) same (oxidiz\$5 or air or water)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/06 15:07
S131	1	(zinc adj dicyclohexyl or "ZnOy.sub.2" or "Zn(C.sub.6H.sub.11).sub.2" or "bis(bis(dimethylamide))" or tin adj dicyclopentadienyl or "Sn(C.sub.5H.sub.5).sub.2" or indium adj cyclopentadienyl or "In(C.sub.5H.sub.5).sub.2") with (solution or medium or carrier) same3 (oxidiz\$5 or air or water)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/06 15:07
S132	3367	(zinc adj dicyclohexyl or "ZnOy.sub.2" or "Zn(C.sub.6H.sub.11).sub.2" or "bis(bis(dimethylamide))" or tin adj dicyclopentadienyl or "Sn(C.sub.5H.sub.5).sub.2" or indium adj cyclopentadienyl or "In(C.sub.5H.sub.5).sub.2" or organometal\$3 or metal \$3organo) with (solution or medium or carrier) same3 (oxidiz\$5 or air or water)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/06 15:07
S133	1853	(zinc adj dicyclohexyl or "ZnOy.sub.2" or "Zn(C.sub.6H.sub.11).sub.2" or "bis(bis(dimethylamide))" or tin adj dicyclopentadienyl or "Sn(C.sub.5H.sub.5).sub.2" or indium adj cyclopentadienyl or "In(C.sub.5H.sub.5).sub.2" or organometal\$3 or metal \$3organo) with (solution or medium or carrier) same (oxidiz\$5 or air or water)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/06 15:08

S134	2	S133 (zinc adj dicyclohexyl or "ZnCy.sub.2" or "Zn(C.sub.6H.sub.11).sub.2" or "bis(bis(dimethylamide))" or tin adj dicyclopentadienyl or "Sn(C.sub.5H.sub.5).sub.2" or indium adj cyclopentadienyl or "In(C.sub.5H.sub.5).sub.2")	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/06 15:08
S135	3867	(synthesi\$4 or prepar\$3 or produc\$4 or mak\$3 or manufactur\$3) with (nanoparticle or nanopowder or (ultra?fine adj (particle or powder))) with (oxide or crystalline or zinc or tin or indium or Zn or Sn)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/06 15:42
S136	104	S135 and ((zinc adj dicyclohexyl or "ZnCy.sub.2" or "Zn(C.sub.6H.sub.11).sub.2" or "bis(bis(dimethylamide))" or tin adj dicyclopentadienyl or "Sn(C.sub.5H.sub.5).sub.2" or indium adj cyclopentadienyl or "In(C.sub.5H.sub.5).sub.2" or organometal\$3 or metal\$3organo) near2 precursor?)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/06 15:43
S137	88	S136 and ((ambient or room) near (temperature or temp))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/06 15:43
S138	90	(synthesi\$4 or prepar\$3 or produc\$4 or mak\$3 or manufactur\$3) with (nanoparticle or nanopowder or (ultra?fine adj (particle or powder))) with (oxide or crystalline or zinc or tin or indium or Zn or Sn) with ((ambient or room) near (temperature or temp))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/06 15:44
S139	3	S138 and ((zinc adj dicyclohexyl or "ZnCy.sub.2" or "Zn(C.sub.6H.sub.11).sub.2" or "bis(bis(dimethylamide))" or tin adj dicyclopentadienyl or "Sn(C.sub.5H.sub.5).sub.2" or indium adj cyclopentadienyl or "In(C.sub.5H.sub.5).sub.2" or organometal\$3 or metal\$3organo) near2 precursor?)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/06 15:44

S140	91	(synthes\$4 or prepar\$3 or produc\$4 or mak\$3 or manufactur\$3) with (nanoparticle or nanopowder or (ultra?fine adj (particle or powder))) with (oxide or crystalline or zinc or tin or indium or Zn or Sn) with (((ambient or room) near (temperature or temp)) or ((without or no) near3 (heat\$3 or thermal \$2) near treat\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/06 15:46
S141	3	S140 and ((zinc adj dicyclohexyl or "ZnOy.sub.2" or "Zn(C.sub.6H.sub.11).sub.2" or "bis(bis (dimethylamide))" or tin adj dicyclopentadienyl or "Sn(C.sub.5H.sub.5).sub.2" or indium adj cyclopentadienyl or "In(C.sub.5H.sub.5).sub.2" or organometal\$3 or metal\$3organo) near2 precursor?)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/06 15:47
S142	91	S140 ad@ <= "20030407"	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/06 15:48
S143	82	S142 and (gas or air or water or "h.sub.2O")	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/06 15:49
S144	78	S142 and (air or water or "h.sub.2O")	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/06 15:49
S145	26	(synthes\$4 or prepar\$3 or produc\$4 or mak\$3 or manufactur\$3) with (nanoparticle or nanopowder or (ultra?fine adj (particle or powder))) with (oxide or crystalline or zinc or tin or indium or Zn or Sn) with (((ambient or room) near (temperature or temp)) or ((without or no) near3 (heat\$3 or thermal \$2) near treat\$4)) with (air or water or "h.sub.2o" or oxidiz\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/06 15:49
S146	11	("4605631"   "4778671"   "5417956"   "5698483"   "5958361"   "6503475"   "6653356").FN. OR ("6761866").URFN.	US-PGPUB; USPAT; USOCR	AND	ON	2009/11/06 15:58



S147	2	(single or one or direct) near step near3 (synthesi \$4 or prepar\$3 or produc\$4 or mak\$3 or manufactur\$3) with (nanoparticle or nanopowder or (ultra?fine adj (particle or powder))) with (oxide or crystalline or zinc or tin or indium or Zn or Sn) same (((ambient or room) near (temperature or temp)) or ((without or no) near3 (heat\$3 or thermal \$2) near treat\$4)) with (air or water or "h.sub.2o" or oxidiz\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/06 16:00
S148	3	(single or one or direct) near step near3 (synthesi \$4 or prepar\$3 or produc\$4 or mak\$3 or manufactur\$3) with (nanoparticle or nanopowder or (ultra?fine adj (particle or powder))) with (oxide or crystalline or zinc or tin or indium or Zn or Sn) same (((ambient or room) near (temperature or temp)) or ((without or no) near3 (heat\$3 or thermal \$2) near treat\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/06 16:01
S149	3	(single or one or direct) near step near3 (synthesi \$4 or prepar\$3 or produc\$4 or mak\$3 or manufactur\$3) with (nanoparticle or nanopowder or (ultra?fine adj (particle or powder))) with (oxide or crystalline or zinc or tin or indium or Zn or Sn) and ((heat\$3 or thermal\$2) near treat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/06 16:02
S150	0	(single or one or direct) near step near3 (synthesi \$4 or prepar\$3 or produc\$4 or mak\$3 or manufactur\$3) with (nanoparticle or nanopowder or (ultra?fine adj (particle or powder))) with (oxide or crystalline or zinc or tin or indium or Zn or Sn) and ((without or no) near3 ((heat\$3 or thermal \$2) near treat\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/06 16:03

S151	1261	(prepar\$5 or produc\$3 or process\$3 or mak\$3 or synthesi\$4 or manufactur\$3) with ((indium or zinc or tin or Sn or Zn or "InC.sub.5H.sub.5") near3 precursor\$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/28 22:30
S152	2037	(prepar\$5 or produc\$3 or process\$3 or mak\$3 or synthesi\$4 or manufactur\$3) with ((indium or zinc or tin or Sn or Zn or "InC.sub.5H.sub.5" or organo?metal\$3 or metal\$3organ\$2) near3 precursor\$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/28 22:31
S153	220	S152 and (nanoparticle? or nanopowder or (ultra?fine adj (particle or powder)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/28 22:32
S154	87	S153 and ((non?aqueous adj (solvent or medium)) or THF or toluene or heptane or anisole)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/28 22:33
S155	120	((non?aqueous adj (solvent or medium)) or THF or toluene or heptane or anisole) same ((indium or zinc or tin or Sn or Zn or "InC.sub.5H.sub.5" or organo?metal\$3 or metal\$3organ\$2) near3 precursor\$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/28 22:34
S156	5	((non?aqueous adj (solvent or medium)) or THF or toluene or heptane or anisole) same ((indium or zinc or tin or Sn or Zn or "InC.sub.5H.sub.5" or organo?metal\$3 or metal\$3organ\$2) near3 precursor\$2) same (ligand or surfactant or (surface adj active adj agent))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/28 22:35
S157	12	S155 and (hexadecylamine or dodecylamine)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/28 22:45
S158	9	S157 not S156	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/11/28 22:45

11/29/2009 3:10:50 PM

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